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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/074,209	02/12/2002	Charles E. Taylor	SHPR-01041USM SRM/SDS	4379
23910 7	590 11/14/2003		EXAM	INER
FLIESLER DUBB MEYER & LOVEJOY, LLP			TRAN. THAO T	
FOUR EMBAI	RCADERO CENTER	·		
SUITE 400			ARTUNIT	PAPER NUMBER
SAN FRANCI	SCO, CA 94111		1711	

DATE MAILED: 11/14/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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· •	Application No.	Applicant(s)	N				
Office Action Community	10/074,209	TAYLOR ET AL.					
Office Action Summary	Examiner	Art Unit					
	Thao T. Tran	1711					
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet wi	h the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  If the period for reply specified above is less than thirty (30) days, a report of 18 NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statuent of 18 NO period by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	.136(a). In no event, however, may a reply within the statutory minimum of thirty divill apply and will expire SIX (6) MON te, cause the application to become AB.	ply be timely filed  (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on	·						
2a) ☐ This action is <b>FINAL</b> . 2b) ☐ T	his action is non-final.						
3) Since this application is in condition for allow							
closed in accordance with the practice unde <b>Disposition of Claims</b>	r <i>Ex par</i> te Quayle, 1935 C.L	0. 11, 453 O.G. 213.					
4)⊠ Claim(s) <u>1-101</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-101</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/	or election requirement.						
Application Papers							
9) The specification is objected to by the Examin							
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120	xammer.						
-	na malanitus sandan 25 H.C.C. S	440(-) (-) (6)					
13) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:	gn phonty under 35 0.5.C. §	119(a)-(d) or (f).					
	oto barra baan waasii sad						
1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.							
<ul> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>							
application from the International B  * See the attached detailed Office action for a lis	ureau (PCT Rule 17.2(a)).	_					
14)⊠ Acknowledgment is made of a claim for domes	•		).				
a) The translation of the foreign language pr	* *		,				
15)⊠ Acknowledgment is made of a claim for domes	stic priority under 35 U.S.C.	§§ 120 and/or 121.					
Attachment(s)	_						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449) Paper No(s)</li> </ol>	5) Notice of I	ummary (PTO-413) Paper No(s)  Iformal Patent Application (PTO-152)					

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-101 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moon (US Pat. 5,215,558).

Moon teaches an electrical dust collector which includes an ion generator; the ion generator comprising a first array of electrodes; a second array of electrodes; the first and second electrodes are ion emitter and ion collectors respectively; an array of auxiliary electrodes between the first and second arrays; an array of accelerating electrodes interposed between the second electrodes (see Fig. 1; col. 1, ln. 10-27).

Although Moon teaches the accelerating electrodes to be interposed, and not downstream of the second electrodes, the accelerating electrodes are positioned towards the end of the second electrodes (see Fig. 1). Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, that the accelerating electrodes of Moon's invention would be functionally equivalent to the trailing electrode of the instant claims. Moreover, Applicants have not disclosed the advantages of this particular position of the trailing electrode over other positions.

In regards to claims 7-8, 12, 18-21, 23, 25-26, 30, 35-36, 40, 47-49, 51, 53,-54, 57, 62-63, 65, 74, 79, , 82, 84-101, it has been within the skill in the art that particular configurations or

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sizes of the electrodes would have been an obvious matter of design choice, depending upon user's preference and intended use. Furthermore, Applicants have not disclosed the advantages of the electrodes having this particular configuration over other configurations.

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In regards to claims 4-6, 9-10, 14-17, 33-34, 37-38, 42-45, it has been settled within the skill in the art that the manner of operation, intended use, or how the product is made, would have insignificant patentable weight when an apparatus claim is being considered. See MPEP 2114.

## **Contact Information**

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao T. Tran whose telephone number is 703-306-5698. The examiner can normally be reached on Monday-Friday, from 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 703-308-2462. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

October 1, 2003

Supervisory Patent Examiner

Technology Cartor 1700